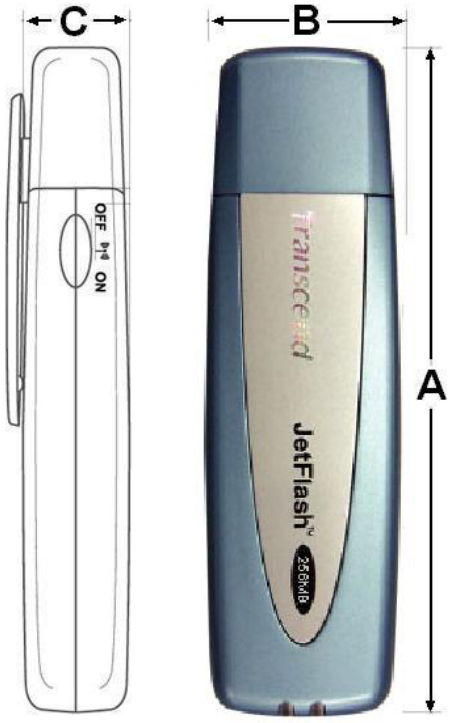
TS256MJF-WL

256MB WLAN JetFlash™

Description

TS256MJF-WL is a 256MB USB Flash Disk with 1 pcs of 256Mx8 (or 2 pcs of 128Mx8) Flash Memory assembled on the printed circuit board. It combines a USB Flash Disk with IEEE802.11b Wireless LAN (WLAN) function. With the WLAN function, users can surf the Internet freely by wireless network.

Outline



Features

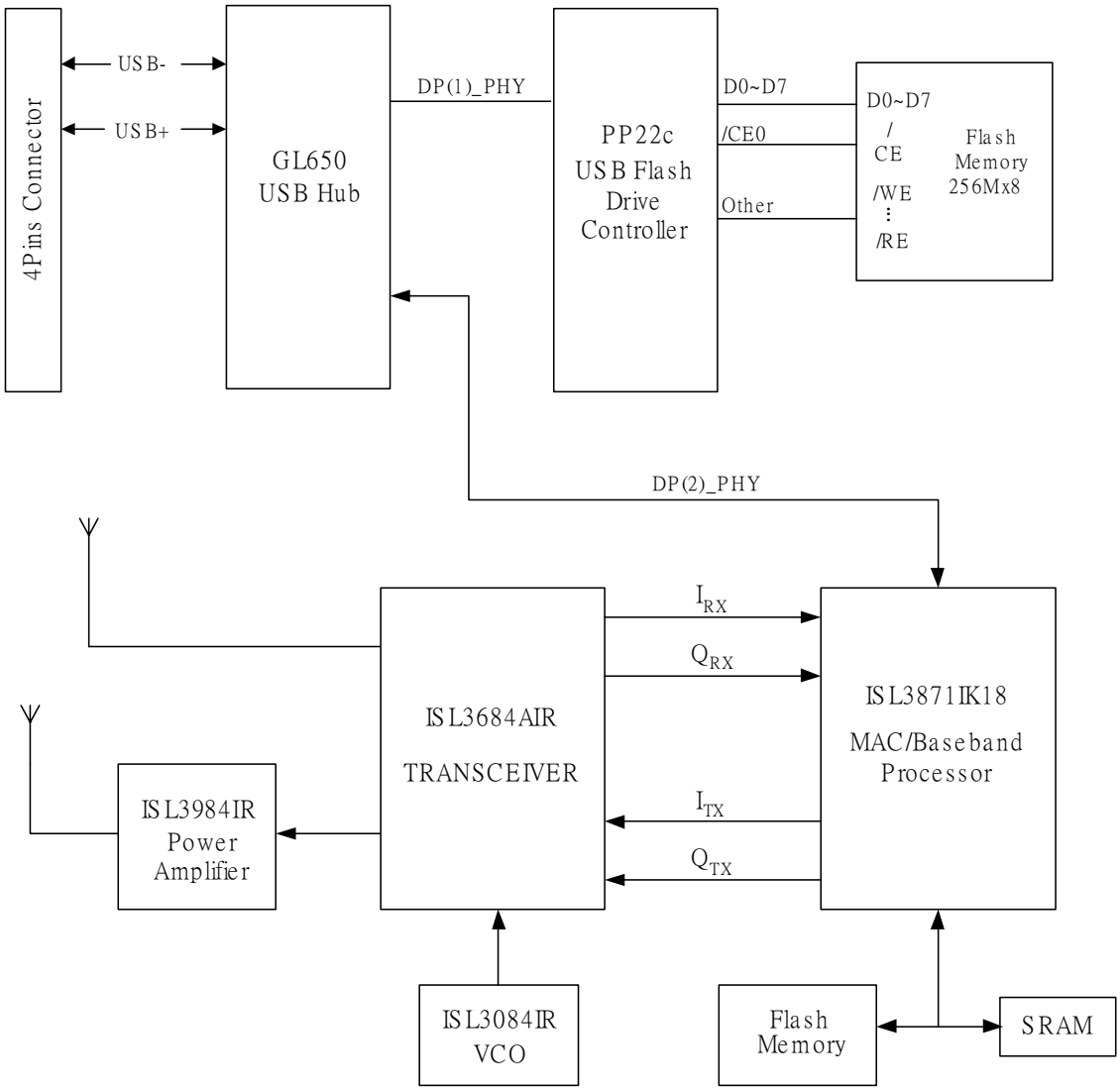
- USB Interface: Compliant with USB specification 1.1
- Compliant with IEEE802.11b standard for 2.4 GHz Wireless LAN
- High-speed wireless connection up to 11 Mbps
- Peer-to-peer communication without Access Point
- Solid design with an integrated antenna
- No external power or battery needed
- LEDs indicate the usage status

Dimensions

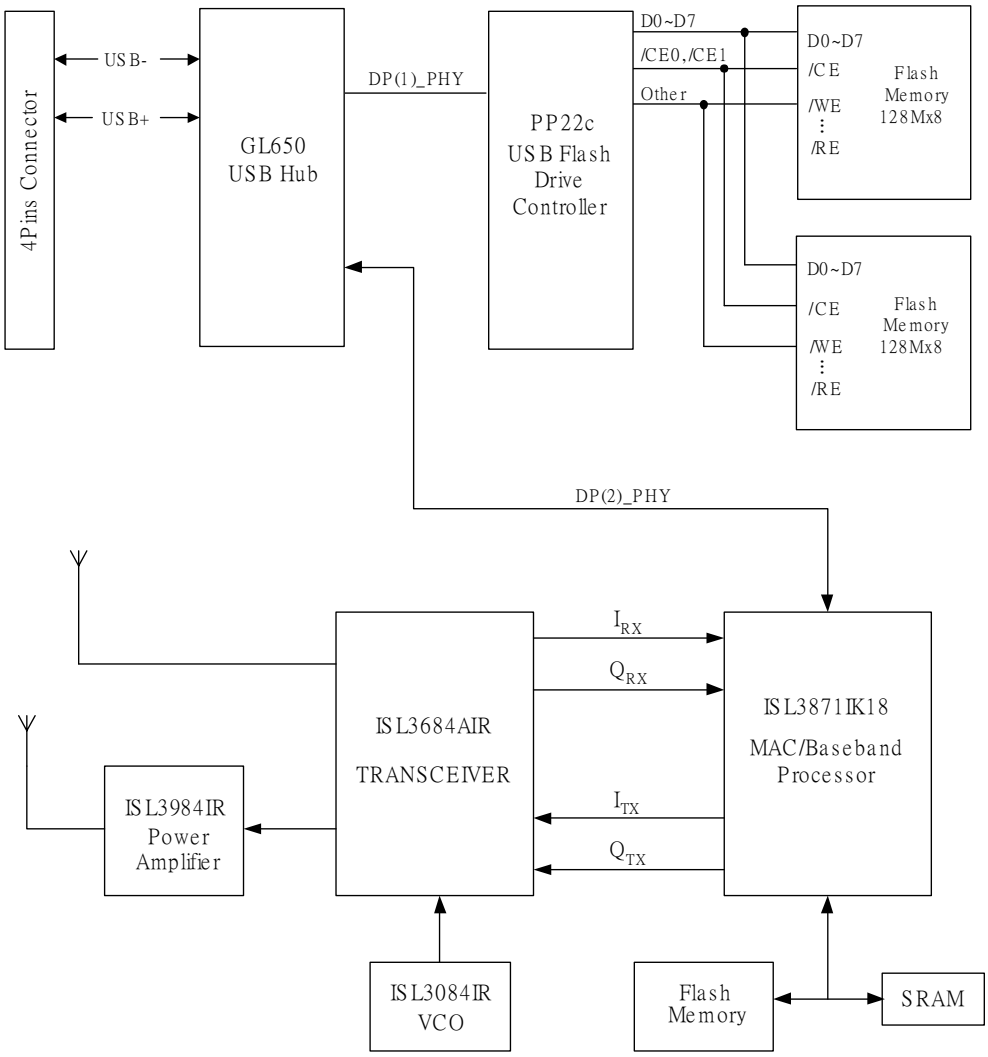
Side	Millimeters	Inches
A	86.00 ± 1.00	3.38± 0.04
B	26.00 ± 1.00	1.02 ± 0.04
C	14.00 ± 1.00	0.55 ± 0.04

Block Diagram

- **With 1 pcs of 256Mx8 Flash Memory**



- **With 2 pcs of 128Mx8 Flash Memory**



Pinouts

Pin No.	Pin Name
01	VCC
02	USB-
03	USB+
04	VSS

Pin Identification

Symbol	Function
USB- USB+	USB differential signal: The pairs are used to transmit Data/Address/Command
VSS	Ground
VCC	USB Power Input

Specifications

Host Interface	USB 1.1
Standard	IEEE802.11b
Storage Capacity	256MB
Dimension	26 (W) x 86 (L) x 14 (H) mm
Weight	27g
WLAN Frequency Range	2.4 – 2.4835 GHz, 2.497GHz
WLAN Operation Range	Indoor: 35-100m @ 11Mbps Outdoor: 300m @ 11Mbps
WLAN Channels Support:	US/Canada: 11 (1 – 11) Europe: 13 (1 – 13) France: 4 (10 – 13) Japan: 14 (1 – 14)
WLAN Transmission Rate	11Mbps, 5.5Mbps, 2Mbps, 1Mbps, Auto-Rate
Modulation Technique	DSSS (Direct Sequence Spread Spectrum) with BPSK (1Mbps), QPSK (2Mbps), and CCK (5.5Mbps and 11Mbps)
Antenna	Embedded PIFA antenna
Wireless Security	64-bit, 128-bit WEP encryption
RF Receiver Sensitivity	@PER < 0.08 11Mbps < -82dBm 5.5Mbps < -86dBm 2Mbps < -88dBm 1Mbps < -90dBm
Power Consumption	Transmission mode: 205mA (Typ.) Receives mode: 190mA (Typ.) Idle mode: 173mA (Typ.) Power Saving Idle mode: 30mA (Typ.)
Temperature Range	Operation Range: 0°C – 55°C Storage Range: -20°C – 65°C
Certificates	CE, FCC, Wi-Fi, TELEC

Maximum Ratings

Symbol	Characteristic	Value	Unit
TSTG	Storage Temperature	-55 to +150	℃
TOP	Operating Temperature	0 to +70	℃
VCC	Supply Voltage	-0.5 to +7.0	V
VIN	DC Input Voltage	-0.5 to +VDD+0.5	V
I	Maximum Current per pin Excluding VDD and VSS	25	mA
IMGND	Maximum Current out of GND	100	mA
IMVCC	Maximum Current out of VCC	100	mA
VESD	Static Discharge Voltage	>4000	V

Electrical Characteristics

Symbol	Parameter	Min.	Typ.	Max.	Unit
Supply					
VDD	Digital Power Supply	4.5	5.0	5.5	V
VDDA	Analog Power Supply	4.5	5.0	5.5	V
USB Bus: DP and DM					
VCP	Regulated Voltage Output	3.0	3.3	3.6	V
VDI	Static Input Voltage	0		VCP	V
VDO	Static Output Voltage	0		VCP	V
Digital I/O Pins					
VIL	Input Logic Low Voltage			0.8	V
VIH	Input Logic High Voltage	2.0			V
VOL	Output Logic Low Voltage (IO=-4mA)			0.1VDD	V
VOH	Output Logic High Voltage (IO=+4mA)	0.9VDD			V

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